

RADBIL', O.S.doktor med. nauk; VALEYEVA, F.R. (Kazan')

Gastroduodenal ulcer caused by the use of adrenocortical hormones (glucocorticoids) and ACTH; a review of foreign literature. Klin. med. 41 no.2819-25 F'63 (MIRA 1783)

1. Iz 2-y kafedry terapii (zav. - doktor med. nauk O.S.Radbil') Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey.

KOL'TSOV, A.A.; VALYEVA, G.Kh.

Analysis of a measuring circuit for automatic electronic potentiometers for temperature measurements. Izv.vys.sch.zav.; prib. 8 no.1:37-42 '65. (MLRA 18:3)

I. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.

VALSEYVA, Kh.G.

Morphology of the nervous apparatus of the kidneys in fish.
Nauch. trudy Kaz. gos. med. inst. 14:129-130 '64.

Some data on the comparative morphology of the nervous apparatus
of the kidneys in vertebrates. Ibid.:131-132 (MIKA 18:9)

1. Kafedra anatomii cheloveka (zav. - prof. A.G.Korotkov)
Kazanskogo meditsinskogo instituta.

VALERYA
EXCERPTA MEDICA Sec 2 Vol 12/4 Physiology Apr 59

1286. CERTAIN RULES FOR THE DEVELOPMENT OF A NATURAL DESENSITIZATION IN THE CASE OF SERUM ALLERGY IN GUINEA-PIGS (Russian text) - Valeeva M. G. - ARKH. PATOL. 1957, 19/8 (58-62) Tables 2
The allergic alteration of separate organs was tested with Unger and Parrot's method (C. R. Soc. Biol. 1936, 123, 676-678) on 66 guinea-pigs. Such alterations were found in the lungs, kidneys, intestines, liver, spleen, and heart; at the same time the severity of the reaction and the time at which it starts vary among these organs. The sensitization develops in waves, which is regarded as an opposing influence of the natural physiological desensitization of the organism.

Brandt - Berlin (V, 2)

VALEYEVA, N.G. (Kazan')

Second meeting of the Institute for the Study of Poliomyelitis
of the Academy of Medical Sciences of the U.S.S.R. Kaz.med.zhur.
40 no.3:110-112 My-Je '59. (MIRA 12:11)
(POLIOMYELITIS)

VALEYEVA, M.G., assistent; GORYUNOVA, V.G.

Anti recurrence action of ACTH and cortisone in the treatment
of erysipeloid. Kaz. med. zhur. 4:27-28 Jl-Ag'63 (MIRA 17:2)

1. Kafedra infektsionnykh bolezney (zav. - dotsent N.P.Vasil'yeva) na baze III infektsionnoy bol'nitsy (glavnyy vrach - F.D. Trofimova) Kazani i kafedra patologicheskoy fiziologii (zav.- dotsent N.I.Vylegzhinan) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni V.I.Lenina.

POPOV, V.K.; VALEYEVA, N.N.; RADCHENKO, T.G.

Micrologging is an efficient method of gas prospecting. Gaz.
prom. 4 no.10:10-12 O '59. (MIRA 13:2)
(Krasnodar Territory--Gas, Natural)
(Krasnodar Territory--Prospecting)

YEPIFANOVA, O.I.; KURSKAYA, M.A.; VALEYEVA, N.V.

Effect of estrone on cell division in the uterine and corneal
epithelium during incubation. TSitologija 5 no.6:656-658
(MIRA 17:10)
N-D '63.

1. Laboratoriya eksperimental'noy tsitologii i tsitokhimii
Instituta radiatsionnoy i fiziko-khimicheskoy biologii AN
SSSR, Moskva.

VALEYEVA, Z.Kh., ordinater

Heart disorders in toxoplasmosis. Kaz. med. zhur. no.6:51-52
(NIPA 17:10)
N-D '63.

1st l-ya kafedra terapii (zav. - prof. L.M. Rakhlin) Kazanskogo
gosudarstvennogo instituta dlya usovershenstvovaniya vrachey
imeni Lenina.

VALEYEVA, Z.T.

VALEEVA, Z. T.

22640 Valeeva, Z. T. Reflektornyye Vliyaniya S Grudnogo Lymphaticheskogo
Protoka Na Krovenosnuyu Sistemу. Sbornik Nauch. Trudov Bashkir. Med.
In-Ta Im. 15-Letiya Vlksm, T. IX , 1949, S. 49-50

So: Letopis'. No. 30, 1949

VALYEVA, Z.T.

Receptors of the cisternae chyli. Trudy Vses. ob-va fiziol. biokhim.
i farm. 2:67-69 '54. (MIRA 8:7)

1. Kafedra normal'noy fiziologii Bashkirskogo meditsinskogo in-
stituta.

(THORACIC DUCT,

cisterna chyli, eff. of stimulation on blood pressure)

(BLOOD PRESSURE, physiology,

eff. of cisterna chyli stimulation)

VALEYEVA, Z.T.

Effect of certain drugs on the lymphatic vessels. Farm.-i toks,
23 no.3:258-264 My-Je '60. (MIRA 14:3)

1. Kafedra normal'noy fiziologii (zav. - zasluzhennyy deyatel'
nauki Bashkirskoy ASSR prof. V.V.Petrovskiy) Bashkirskogo medit-
sinskogo instituta. (LYMPHATICS)

VALEYEVA, Z.T.

Some reflexes in lymphatic system. Fiziol. zhur. 47 no.3:316-320
(MIRA 14:5)
Mr. '61.

1. From the Normal Physiology Chair, Bashkirian Medical Institute, Ufa.
(LYMPHATICS) (REFLEXES)

VALEYEVA
Physical And
Chemical Chemistry

b
③

11/19/77

MR
1-26-51

The parachors of esters of phthalic and terephthalic acids. B.A. Arbuzov and Z.Z. Valeeva (V. I. Ul'yanova-Lenina State Univ., Kazan). Zhur. Fiz. Khim. 27, 713-18 (1953).—The surface tension γ (dynes/cm.) at 20° was for Me phthalate (Me_2R) 41.83, Et_2R 37.38, Pr_2R 35.25, Bu_2R 33.40, $(\text{C}_6\text{H}_{11})_2\text{R}$ 32.20, $(\text{C}_8\text{H}_{17})_2\text{R}$ 32.00, $(\text{C}_9\text{H}_{19})_2\text{R}$ 31.52, and $(\text{C}_{10}\text{H}_{21})_2\text{R}$ 31.75. It was for Et terephthalate ($\text{Et}_2\text{R}'$) 32.80 at 55°, $\text{Pr}_2\text{R}'$ 34.68 at 20°, $\text{Bu}_2\text{R}'$ 33.72 at 20°, 32.80 at 55°, $(\text{C}_6\text{H}_{11})_2\text{R}'$ (m. 41-42.5°) 30.0 at 55°, $(\text{C}_8\text{H}_{17})_2\text{R}'$ (m. 44-45°) 29.76 at 55°, $(\text{C}_9\text{H}_{19})_2\text{R}'$ (m. 55-57°) 29.25 at 65°. At 20°, γ of benzoates was: hexyl 32.82, octyl 32.60, nonyl 32.59, and decyl 32.70. The calcd. parachors, with $(\text{C})_{14}\text{H}_{14}(\text{C}) = 174.8$, $(\text{C})\text{COO}(\text{C}) = 66.4$, ortho = -2.7, correction = -4.0, are greater than the exptl. values, and the difference increases with the no. of carbons in the alkyl radical. The difference between the next homologs is 4.4 for phthalates, 2.2 for terephthalates, and 1.1 for benzoates. J. J. Bikerman

VALEYEVA, Z.Z.

Viscosity and structure of esters of phthalic acids. B. A. Arbuзов and Z. Z. Valeeva (V. I. Ul'yanov-Lenin Univ., Kazan). *Zhur. Fiz. Khim.* 27, 790-2 (1953); cf. *C.A.* 43, 135. The viscosities were measured at 20° of benzene solns. of hexyl terephthalate, octyl terephthalate, nonyl phthalate, nonyl *m*-phthalate (I), nonyl terephthalate, decyl *m*-phthalate (II), decyl terephthalate, hexyl carbonate (III), octyl carbonate (IV), decyl carbonate (V), hexyl orthopropionate (VI), and octyl orthopropionate (VII) (concn. 1-10%). By means of the tabulated exptl. data, these esters were shown to have an elongated structure in benzene soln. The phthalates were prep'd. by reaction of the ethyl phthalate with the appropriate alc. In the presence of Na, and the remaining esters were prep'd. by the method of Arbuзов and Yu'dasheva (*C.A.* 44, 8796) and Yuldasheva (cf. *Uchenye Zapiski Kazan. Gosudarst. Univ.*, im. V. I. Ul'yanova-Lenina, 112, 86 (1952)). The b.p., n_{D}^{20} , d_{4}^{20} , and surface tension (γ) at 20° in dynes/cm. in that order are for I, 233-3.6° (1 mm.), 1.4851, 0.0712, 32.23; for III, 129° (3 mm.), 1.4235, 0.0936, 28.04; for IV, 169-3.3° (4 mm.), 1.4353, 0.8926, 29.03; for V, 201-4.5° (4 mm.), 1.44205, 0.8839, 30.21; for VI, 172.5-3.5° (4 mm.), 1.43590, 0.8699, 27.35; for VII, 207.8° (2.5 mm.), 1.41295, 0.8641, 28.85. For II if the m.p., b.p., d_{4}^{20} , and γ at 65° are 55-6°, 268.5-9.5° (1.5 mm.), 0.9329, and 29.32, resp.

J. W. Lowenberg, Jr.

VALEYEVA, Z. Z.

VALEYEVA, Z. Z.--"The Parachors of Certain Simple and Complex Ethers."
Min Higher Education USSR. Kazan' State U imeni V. I. Ul'yanov-Lenin.
Sci Res Chemical Inst imeni A. N. Butlerov. Kazan', 1955. (Dissertation
for the Degree of Candidate of Chemical Sciences).

SO: Knizhnaya Letopis' No. 27, July 1955

VALEYKO, N.K.; SHMIDT, Ye.D.

Clinical study of phenylin in patients with cardiovascular diseases.
Terap.arkh. 31 no.4: 52-55 Ap '59. (MIRA 14:5)

1. Iz fakul'tetskoy terapeuticheskoy kliniki (zav. - prof. B.P.
Kushelevskiy) Sverdlovskogo meditsinskogo instituta.
(INDANDIONE) (BLOOD-COAGULATION)

KUSHELEVSKIY, B.P.; ROZENBLAT, F.Ya.; VAL'KO, N.K.; KOKOSOV, A.I.
(Sverdlovsk)

Reserpine-anticoagulant treatment of hypertension concomitant
with stenocardia. Klin.med. no.3:95-100 '62. (MIRA 15:3)

1. Iz fakultetskoy terapevticheskoy kliniki (zav. - zasluzhennyy
deyatel' nauki prof. B.P. Kushelovskiy) Sverdlovskogo meditsinskogo
instituta.
(HYPERTENSION) (ANGINA PECTORIS) (RESERPINE)
(ANTICOAGULANTS (MEDICINE))

VALEYKO, N.K.

Comparative clinical study of syncoumar (syntrom), a new anticoagulant. Kardiologija 2 no.6:66-69 N-62. (MIRA 17:8)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - zаслу-
zhennyy deyatel' nauki prof. B.P. Kushelevskiy) Sverdlovskogo meditsinskogo instituta.

VALYNIKOV, L.

Strengthening labor discipline. Mest.ugl. 3 no.5:22 My '54. (MIRA 7:6)

1. Zaboyshchik shakhty im. I.V.Stalina kombinata Voroshilovgradugol'.
(Coal miners)

SUMAROKOVA, T.N.; LITVYAK, I.G.; VALEZHANINA, T.F. (Alma-Ata)

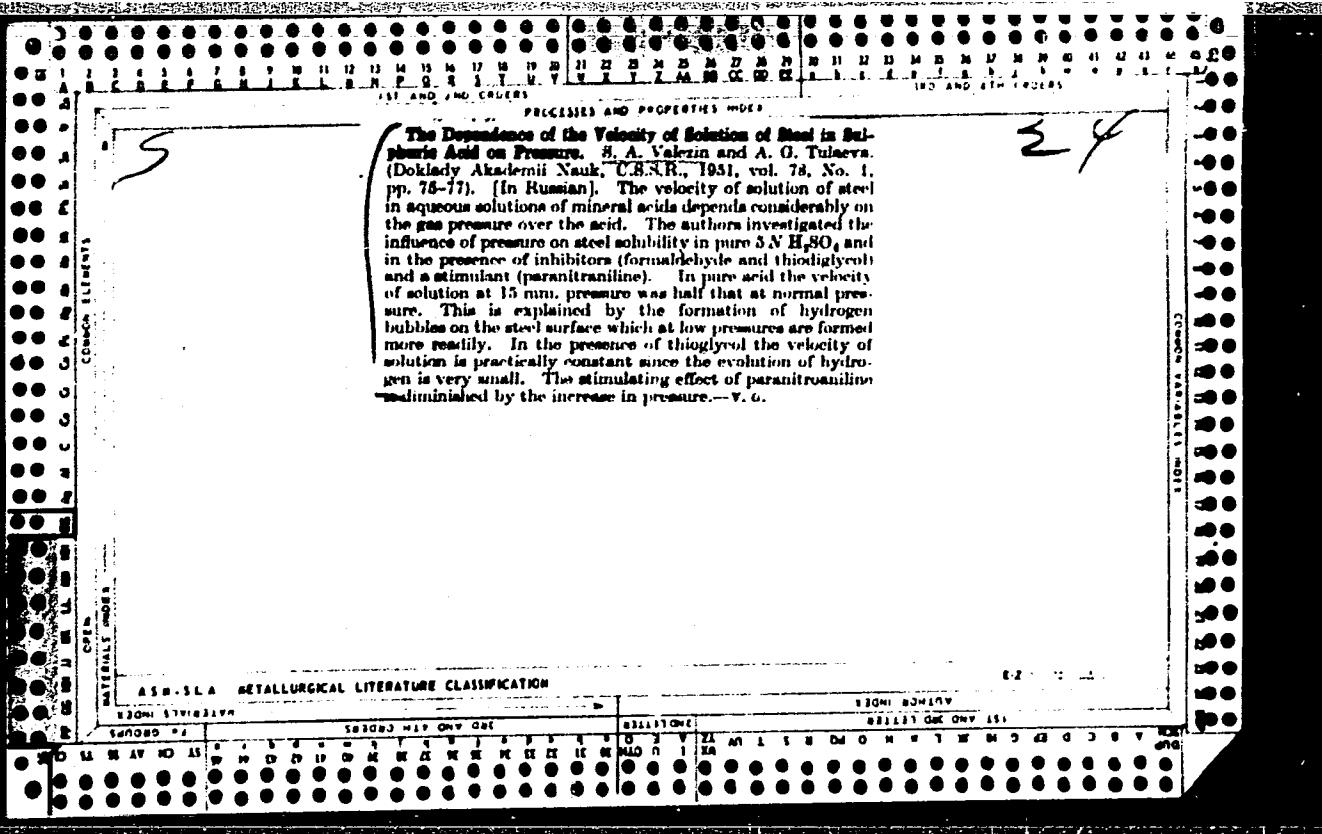
Cryoscopic study of the systems $\text{SnCl}_4 - \text{RCOOH}$. Zhur. fiz. khim.
34 no.12:2723-2726 D '60. (MIRA 14:1)

1. Akademiya nauk KazSSR, Institut khimii.
(Tin chloride) (Acids, Fatty)

VALEZHEV, I.S.

29310. Rentgenodiagnostika bronkhostenozov. Voprosy onkologii i rentgenologii,
No. 1-2, 1948, s. 213-25.

SO: Izvdatya Ak. Nauk Latvivskoy SSR, No. 9, Sept., 1955



KELETI, Bela, dr.; PINTER, Zoltan, dr.; VALFI, Frigyes, dr.

Data on the prognosis in epidemic hepatitis. Orv. hetil. 103 no.14:
628-636 Ap '62.

1. Magyar Nephadsereg Egeszsegugyi Szolgalata.
(HEPATITIS INFECTIOUS diag)

HUNGARY

VALFI, Frigyes, Dr, lieutenant colonel-physician (orvosalezredes);
[no affiliation given].

"Internal Medical Treatment of Burns."

Budapest, Honvedorvos, Vol XV, No 2, Apr-June 1963, pages 112-130.

Abstract: The author lists the functional disturbances of various organs which can arise as a result of burns. Changes in metabolism, kidney, cardiovascular system, erythropoietic system, blood coagulation, liver, lungs, gastrointestinal tract, endocrine system are discussed. Cachexia due to burns, the prognosis for the injured, general therapy, analgesic and sedative treatment and the feeding of the victims are treated in separate chapters. No references.

| 1/1

VAL'FISH, Anna (Tiflis)

Contribution to the theory of a class of Dirichlet's series. Acta
Arithmetica 7 no.1:71-76 '61.

1. Tiflis, Matematicheskii Institut.
(Series, Dirichlet's)

VAL'FISH, Anna

Theory of a class of Dirichlet's series. Soob. AN Gruz. SSR 27
no.1:9-16 Jl '61. (MIRA 16:8)

1. AN Gruzinskoy SSR i Tbilisskiy matematicheskiy institut im.
A.M.Razmadze. Predstavлено akademikom AN Gruz. SSR
N.I.Muskhelishvili. (Series, Dirichlet's)

VAL'FISH, A.A.

Representation of number by sums of generalized pentagonal
numbers. Soob. AN Gruz. SSR 22 no.4:385-392 Ap '59.
(MIRA 12:9)

1. AN GruzSSR, Tbilisskiy matematicheskiy institut im. A.M.
Razmadze. Predstavлено академиком N.I. Muskhelishvili.
(Numbers, Theory of)

VAL'FISH, A.A.

Sums of coefficients of certain Dirichlet series. Trudy Mat.
inst. AN Gruz. SSR 27:209-251 '60. (MIRA 15:3)
(Series, Dirichlet's)

S/044/62/000/007/002/100
C111/C333

AUTHOR: Val'fish, A. A.

TITLE: On the sums of the coefficients of some Dirichlet series

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 19-20,
abstract 7A97. ("Soobshch. AN Gruz SSR", 1961, 26, no. 1,
9-16)

TEXT: The classical investigations of Voronoy, Hardy and Landau concerned with the expansion of summation functions in infinite series with Bessel functions are applied to the general Dirichlet series.

Let $Z(s) = \sum_{n=1}^{\infty} c_n l_n^{-s}$, where c_n -- complex, $0 < l_1 < l_2 < \dots$, $s = \sigma + it$.

Let the following conditions be satisfied:

I. $\sum_{n=1}^{\infty} |c_n|^{\frac{1}{\alpha}} l_n^{-\sigma}$ converges absolutely for $\sigma > \beta > 0$ and $Z(s)$ is regular in the entire plane except eventual poles on the line $0 < s \leq \beta$.

II. $G(s) = \prod_{i=1}^v \Gamma(\gamma_i + \delta_i s) / \prod_{j=1}^u \Gamma(\alpha_j + \beta_j s)$, where α_j are real and

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C111/C333

On the sums of the coefficients of ...

$\ell_j, \beta_i, \gamma_i$ are positive; $G(s)/s$ is regular in $s=0$.

III. $\sum \beta_i = \sum \delta_i = H/2, \sum \alpha_i = \alpha, \sum \gamma_i = \gamma.$
 $\gamma - \alpha + (\mu - \nu)/2 = \eta; 1/2 < \eta < 3/2,$
 $5/2 - \eta' < H < 2\eta/3.$

IV. The functional equation

$$Z(s) = r\omega^s G(s) Z(2\eta/H-s),$$

holds, where $r \neq 0, \omega > 0$.

V. To every strip $\zeta_1 \leq \zeta \leq \zeta_2$ there exists a constant $\gamma = \gamma(\zeta_1, \zeta_2)$
such that $Z(s) = O(e^{\gamma|t|})$ ($\zeta_1 \leq \zeta \leq \zeta_2$).

VI. If $R(x)$ is the sum of the residues of the function $x^s Z(s)/s$
on the line $0 \leq s \leq \beta$, then

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C111/0333

On the sums of the coefficients of ...

$$\sum_{l_n \leq x} c_n - R(x) = o(x^{(\gamma_i + 1/2)/H}).$$

Furthermore, let $w > 0$

$$L(w) = \frac{1}{2\pi i} \int_{((\gamma - 5/2)/H)}^{\infty} \frac{G(s)}{s(s+1)(s+2)} w^{s+2} ds,$$

$$F(w) = L''(w);$$

$$\lambda = \min\{\gamma_i/\delta_i\}, e_n = r c_n l_n^{-2\gamma_i/H}, \lambda_n = \omega l_n (n=1, 2, \dots).$$

The following theorem is proved: Let $Z(s)$ satisfy the conditions I-VI.
Then the identity

$$\frac{1}{2} \left\{ \sum_{l_n \leq x+0} c_n + \sum_{l_n \leq x-0} c_n \right\} = R(x) + \sum_{n=1}^{\infty} e_n F(\lambda_n x)$$

holds, where the series on the right hand satisfies the following conditions: 1) it converges for all $x > 0$; 2) it converges boundedly in every closed interval $X : 0 < x_1 \leq x \leq x_2$; 3) it converges uniformly

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On the sums of the coefficients of ... C111/C333

in every X which contains no numbers l_n for which $c_n \neq 0$. The schemati-
cally given proof is based on the method of Hardy-Landau. It is shown
that the theorem contains the well-known identities of G.F. Voronoy,
H. Hardy and A. Z. Val'fish as special cases.

Abstracter's note: Complete translation.]

Card 4/4

VAL'FISH, A.E.

Tellerprobleme, IV. Annali di Pisa, 5 (1936), 289-293.
Additivnaya teoriya chisel, III. Tbilisi, Trudy matem. in-ta gr. fil. an., 3 (1938),
69-112.
Zur additiven zahlentheorie, IV tbilisi trudy matem in-ta gr. fil. an., 3 (1938),
121-192.
Ueber gitterpunkte in mehrdimensionalen ellipsoiden, VII. tbilisi, trudy
matem. in-ta gr. fil. an. 5 (1938), 1-68.
Zur additiven zahlentheorie, V tbilisi, trudy matem. in-ta gr. fil. an. 5 (1938)
69-114.
Ueber einige ramanujanische satze. tbilisi, trudy matem. in-ta gr. fil.
an. 5 (1938) 145-152.
Ueber gitterpunkte in mehrdimensionalen ellipsoiden, VIII tbilisi, trudy matem.
in-ta gr. fil. an. 5 (1938), 181-196.
Zur additiven zahlentheorie, VI tbilisi, trudy matem. in-ta gr. fil. an. 5 (1938)
197-254.
Zur additiven zahlentheorie, VIII tbilisi, trudy matem. in-ta gr. fil. an. 8 (1940)
69-108.
Zur additiven zahlentheorie, VII tbilisi, soobshch an grssr, 2 (1941) 7-14.
Zur additiven zahlentheorie VII tbilisi, soobshch an grssr, 2 (1941), 221-266.
Zur additiven zahlentheorie, IX tbilisi, trudy matem. in-ta an grssr, 9 (1941),
75-96.
On lattice points in high-dimentional ellipsoids, IX Tbilisi, trudy matem, in-ta
an gr ssr, 10 (1941), 14-160.
On the class-number of binary quadratic forms. Tbilisi, trudy matem. in-ta An
CONTINUED

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VAL'FISH, A.Z.

gr ssr, 11 (1942), 57-72.

On the additive theory of numbers, X tbilisi, trudy matem. in-ta an gr ssr, 11
(1942), 175-136.

SO: Mathematics in the USSR, 1917-1947

edited by Kurosh, A.G.,

Markushevich, A.I.,

Rashevskiy, P.K.

Moscow, Leningrad, 1948

VAL'FISH, A.Z.

Concerning a theorem of Polya, the inverse of Fabry's theorem.
Soob.AN Gruz.SSR 8 no.4:197-204 '47 . (MIRA 9:7)

1.Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy
institut imeni A.M.Razmadze. Predstavлено deystvitel'nym chlenom
Akademii I.N.Vekua.
(Functions)

VAL'FISH, A.Z.

Val'fish, A. Z. Elementary solution of Pell's equation.
 Akad. Nauk Gruzin. SSR. Trudy Mat. Inst. Razmadze
18, 116-132 (1951). (Russian. Georgian summary)

The author (whose name is also spelled Walfisz) claims that all previous treatments of Pell's equation $x^2 - ky^2 = 1$ depend tacitly on limiting processes as they either operate in the field of real numbers or use cyclotomy (Kreisteilung). Here he shows how known proofs can be modified to avoid this dependence. To prove the existence of solutions he first proves that for any positive integer m there is a rational r with $k < r^2 < k + m^{-2}$ and then uses the Schubfachprinzip to show the existence of integers x, y with $|x - ry| < m^{-1}$, $0 < y \leq m$. Then $|x^2 - ky^2| \leq 4k$; and infinitely many such pairs x, y can be obtained. The proof now runs on familiar lines. To demonstrate the existence of a fundamental solution the author works in the abstractly defined field of elements $a + b\sqrt{k}$. He shows at great length that this can be ordered (the order is that obtained by giving \sqrt{k} its real-number value; but this interpretation is avoided). The proofs are now again the familiar ones.

J. W. S. Cassels (Cambridge, England).

Pell's equation in imaginary quadratic fields.

Val'fish, A. Z. Pell's equation in imaginary quadratic fields.
 Akad. Nauk Gruzin. SSR. Trudy Mat. Inst. Razmadze
18, 133-151 (1951). (Russian. Georgian summary)

The equation in question is $\xi^2 - kr^2 = 1$, where r is a given nonsquare integer in the imaginary quadratic field $K(\sqrt{d})$, $d < 0$, and ξ, η are variable integers in the field. Using the method of Dirichlet for $K(\sqrt{-1})$ [J. Reine Angew. Math. **24**, 291-371 (1842) = Werke, Bd. I, Reimer, Berlin, 1899, pp. 533-618], the author shows the existence of nontrivial solutions and of a fundamental solution ξ_0, η_0 such that every other solution is of the form $\xi + \eta\sqrt{r} = \pm (\xi_0 + \eta_0\sqrt{r})$ (or if $d \neq -1$ and $r = -3$ and $\xi = \frac{1}{2}(1 \pm \sqrt{(-3)})$) of the form $\pm i(\xi_0 + \eta_0\sqrt{r})$. The methods are elementary throughout. There is an account of other recent work, but no reference to the relation with the units of the quartic field $K(\sqrt{d}, \sqrt{r})$.

So: MATHEMATICAL REVIEW (Unclassified)
 Vol. XIV, No 6, June 1953, pp 523-608

VAL'FISH, A. Z.

PA 243T81

USSR/Mathematics - Number Theory

Nov/Dec 52

"Representation of Numbers by the Sums of Squares;
Asymptotic Formulas," A. Z. Val'fish

"Usp Matemat Nauk" Vol 7, No 6 (52), pp 97-178

Derives asymptotic formulas for the functions $r_k(n)$ ($k > 4$ and for $n \rightarrow \infty$) and $r_k(m,n)$ ($k > 7$ and for $n \rightarrow \infty$, $m = n \pmod{2}$, $kn - m^2 > 0$), where $r_k(m,n)$ equals the number of solutions a_1, a_2, \dots, a_k of the system of equations $a_1 + \dots + a_k = m$, $a_1^2 + \dots + a_k^2 = n$, that is, the number of representations of two given numbers m and n in the form of the sum k of any numbers of squares of the same numbers, taking into account the signs of the terms.

243T81

VAL'FISH, A. Z.

"On the Theory of Primes"
Sobshch. AN Gruz. SSR, Vol 11, No 2, 1953, pp 77-83

Assuming the correctness of the generalized Riemann hypothesis for all L-functions, and taking the function $F(N)$ equal to the number of representations of natural N in the form $N = mn + p$, where m and n are natural and p is prime, the author derives a relationship for $F(N)$ which is similar to that obtained by A. A. Ren'i in an article published in DAN SSSR, Vol 56, No 5, 1947, pp 675-678. (RzhMat, No 11, 1954)

SO: W-31187, 8 Mar 55

VAL'FISH, A.Z.

Toward a theory of simple numbers. Soob. AN Grus. SSR 14 no.2:77-83 '53.
(MLRA 7:5)

1. Tbilisskiy gosudarstvennyy pedagogicheskiy institut im. A.S.Pushkina.
(Numbers, Theory of)

VAL'FISH, A.Z.

Euler's function. Trudy Tbil.mat.inst. 19:1-31 '53. (MIRA 7:8)
(Functions, Phi) (Numbers, Theory of)

VAL'FISH, A.Z.

Additive theory of numbers; part 11. Trudy Tbil.mat.inst. 19:
(MLRA 7:8)
33-59 '53.
(Numbers, Theory of)

VAL'FISH, A.Z.

USSR/Mathematics - Number Theory

1 Jun 53

"Euler's Totient Function," A. Z. Val'fish, Tbilisi
Math Inst imeni Razmadze, Acad Sci Georgian SSR

DAN SSSR, Vol 90, No 4, pp 491-493

Demonstrates the improved evaluation

$$\bar{\omega}(x) \approx \sum_{n \leq x} \phi(n) - 3\pi^{-2}x^2 = Bx(\log x)^{3/4}(\log \log x)^2,$$

which is more exact than the familiar Mertens expression $\bar{\omega}(x) \approx Bx \cdot \log x$ (see I. M. Vinogradov, "Osnovy Teorii Chisel" [Principles of Number Theory], 5th ed, 1949, p 132); here ϕ is Euler's indicator phi

254T88

function, B without indexes designates numbers not exceeding in modulus the absolute consts, and the logarithms greater than 1 are taken. Cites related work of the Chinese mathematician Hua Lo-keng ("Additive Theory of Primes," 1947, in Russian). Presented by Acad I. M. Vinogradov 31 Mar 53.

VAL'FISH, A. Z.

USSR/Mathematics - Number Theory

11 Jun 53

"Isolated Primes," A. Z. Val'fish, Tbilisi Math
Inst im Razmadze, Acad Sci Geo SSR

DAN SSSR, Vol 90, No 5, pp 711-713

Demonstrates that almost all primes are strongly isolated and, in particular, that almost all primes are two-sidedly isolated in Sierpinski's sense (i.e., $\alpha(x) \sim x / \log x \sim \pi(x)$). Also shows that for any k there is a series of k successive primes $p_n, p_{n+1}, \dots, p_{n+k-1}$ which are also strongly isolated. Presented by Acad I. M. Vinogradov

31 Mar 53.

260T79

3

Val'fig A. Z. On lattice points in multidimensional
 ellipsoids XVI. Akad. Nauk Gruzin. SSR. Trudy
 Tbiliss. Mat. Inst. Razmadze 20 (1954), 1-20. (Russian)
 Let $P_{2k}(x) = A_{2k}(x) - V_{2k}(x)$, where $A_{2k}(x)$ is the number
 of lattice points in the sphere $z_1^2 + \dots + z_k^2 = x$, and
 $V_{2k}(x) = \pi^k x^k / \Gamma(k+1)$ is its volume. In previous papers of
 this series [same Trudy 15 (1947), 275-296, 297-322; 16
 (1948), 215-230; 17 (1949), 245-258; MR 13, 919] the
 author derived properties of the functions P_{2k}, e_{2k} , defined
 by

$$P_{2k} = \limsup_{n \rightarrow \infty} \frac{P_{2k}(n)}{M_{2k} n^{k-1}} \quad e_{2k} = \liminf_{n \rightarrow \infty} \frac{P_{2k}(n)}{M_{2k} n^{k-1}},$$

μ

where $M_{2k} = \pi^k / 2\Gamma(k)$. In the present paper he derives
 analogous results for the functions $P_{2k,a}, e_{2k,a}$ defined by

$$P_{2k,a} = \limsup_{\substack{n \rightarrow \infty \\ n \equiv a \pmod{2}}} \frac{P_{2k}(n)}{M_{2k} n^{k-1}},$$

$$e_{2k,a} = \liminf_{\substack{n \rightarrow \infty \\ n \equiv a \pmod{2}}} \frac{P_{2k}(n)}{M_{2k} n^{k-1}}.$$

In particular, he shows that (a) $P_{2k,a} + e_{2k,1-a} = 2$,
 (b) $P_{2k,0} = P_{2k}$, (c) $e_{2k,1} = 2 - P_{2k} = e_{2k}$. W. H. Simons.

Spud

1 - F/W

VAL'FISH, A.Z.; LURSMANASHVILI, A.P., red.; SARKISYAN, L.N., red.izd-va;
TODUA, A.R., tekred.

[Lattice points on multidimensional spheres] Tselye tochki
v mnogomernykh sharakh. Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR,
1959. 460 p.
(Numbers, Theory of) (MIRA 14:4)

VAL'FISH, A. Z.

Transactions of the Third All-union Mathematical Congress (Cont.)
 Jun-Jul '56, Trudy '56, v. 1, Sects Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
COVERAGE: The volume deals with Russian contributions.
 For personalities and references see Table of Contents.

TABLE OF CONTENTS:

Section on the Theory of Numbers

Billevich, K. K. (Ordzhonikidze). In the Units of Algebraic Fields of the 3rd and 4th Order. Voronoy, G. F., Delone, B. N. and Faddeyev, D. K. are mentioned.	3-16
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Bredikhin, B. M. (Kuybyshev). Some Problems in the Theory of Characters on Commutative Semi-group.	3
<u>Val'fish, A. Z. (Tbilisi).</u> On the Vinogradov Theorem of Three Primes.	3-4
Card 2/80	4

V A L ' F I S H , A . Z .

VAL'FISH, A.Z., redaktor; MANDZHAVIDZE, G.F., redaktor; MIKELADZE, Sh.Ye.,
redaktor; MUSKHELISHVILI, N.I., otvetstvennyy redaktor; CHELIDZE, V.G.,
redaktor; CHOGOSHVILI, G.S., redaktor; KABACHKOV, S.R., tekhnicheskiy
redaktor.

[Linear discontinuous boundary problems of the function theory,
singular integral equations and some of their applications] Lineinyye
razryvnye granichnye zadachi teorii funktsii, singuliarnye integral'nye
uravneniya i nekotorye ikh prilozheniya. Tiflis, Izd-vo Akademii nauk
Gruz.SSR, 1956, 158 p. (Akademia nauk Gruz.SSR. Matematicheskii institut.
Trudy, vol. 23) (MLRA 10:5)

(Functions, Discontinuous)
(Integral equations)
(Functions of complex variables)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9

VAL'F... A 2

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9"

VAL'FISH, A.Z.

Additive theory of numbers. Trudy Mat.inst. AH Cruz.SSR 22:3-32
'56. (MLRA 10:3)
(Numbers Theory of)

VAL'FISH, A.Z.

Convergence abscissas of certain Dirichlet's series. Trudy Mat.inst.
AN Cruz.SSR 22:33-75 '56. (MLRA 10:3)
(Dirichlet's series)

"APPROVED FOR RELEASE: 08/31/2001

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best fit to (b) (6) and (b) (7) and gives more archive options

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CIA-RDP86-00513R001858430003-9"

with $\psi_1(s) = (s - [s])^k - (s - [s]) + \frac{1}{2}$. A similar expression is given for $P_{1k}(x)$ with $k \equiv 1 \pmod{2}$. W. H. Simons

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9

~~VALFISH, A.Z.~~

~~Definition of Polya's inverse theorem~~

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9"

WADDELL 47

1. $\lambda \in \mathbb{C}$, $\lambda \neq 0$, $\lambda \neq -1$
2. $\alpha \in \mathbb{C}^*$, $\alpha \neq 1$

3. $\beta \in \mathbb{C}^*$, $\beta \neq 1$

4. $\gamma \in \mathbb{C}^*$, $\gamma \neq 1$

5. $\delta \in \mathbb{C}^*$, $\delta \neq 1$

6. $\epsilon \in \mathbb{C}^*$, $\epsilon \neq 1$

7. $\zeta \in \mathbb{C}^*$, $\zeta \neq 1$

8. $\eta \in \mathbb{C}^*$, $\eta \neq 1$

9. $\theta \in \mathbb{C}^*$, $\theta \neq 1$

10. $\varphi \in \mathbb{C}^*$, $\varphi \neq 1$

11. $\psi \in \mathbb{C}^*$, $\psi \neq 1$

12. $\chi \in \mathbb{C}^*$, $\chi \neq 1$

13. $\psi \in \mathbb{C}^*$, $\psi \neq 1$

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9

WALFISH A 7

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9"

VAL'FISH, A.Z.

Sums of the coefficients of some modular forms. Soob. AM Grus.
SSSR 16 no.6:417-423 '55. (MIRA 9:2)

1. Akademiya nauk Gruzinskey SSR, Tbilisskiy matematicheskiy
institut imeni A.M.Razmadze. Predstavlene akademikom N.I.
Muskhelishvili.

(Numbers, Theory of)

VAL'FISH, A.Z.

Sums of coefficient modules of some modular forms. Soob. AM Gruz. SSR
16 no.7:497-502 '55. (MIR 9:2)

1. Akademiya nauk Gruzinskoy SSR i Tbilisijskiy matematicheskiy institut imeni A.M. Razmadze. Predstavлено akademikom N.I. Muskhelishvili.
(Numbers, Theory of)

VAL'FISH, A.Z. (Tbilisi)

Lattice points in multi-dimensional ellipsoids. Part 17. Trudy
Tbil.mat.inst.no.21:3-64 '55. (MIRA 9:7)
(Aggregates) (Ellipsoid)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9

VAL'FISH, Anna

Fourier-Poisson formula for a class of Lipschitz series. Study Mat.
Inst. AN Ukr. ESR 20, 1963. (MIRA 17.13)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9"

NESTEROV, M.; KHONKAYURI, P.; RODNOV, V.; VAL'FORS, V.; NICHKOV, V.;
VALDEN, Yu.

Favorable prospects of Soviet-Finnish trade. Vnesh.torg. 30
no.6:29-31 '60. (MIRA 13:6)

1. Predsedatel' Prezidiuma Vsesoyuznoy torgovoy palaty (for Nesterov). 2. Predsedatel' finsky-sovetskoy torgovoy palaty, general'nyy direktor Aktsionernogo obshchestva "Rauma-Repolu" for Khonkayuri). 3. Predsedatel' Vsesoyuznogo Ob'yedineniya "Mashinoeksport" (for Rodnov). 4. General'nyy direktor Aktsionernogo obshchestva "Vyartsila-kontsern," chlen pravleniya finsky-sovetskoy palaty (for Val'fors). 5. Predsedatel' Vsesoyuznogo Ob'yedineniya "Mksportles" (for Nichkov). 6. Direktor-rasporyaditel' Aktsionernogo obshchestva "Ob'yedinennyye bumazhnnyye fabriki," chlen pravleniya finsky-sovetskoy torgovoy palaty (for Valden).

(Russia--Commerce--Finland) (Finland--Commerce--Russia)

GERO, S.; MOSONYI, L.; ROSNYAY K.; VALFY, F.

Effects of Pilatov's tissue extracts on experimental arthritis.
Kiserletes orvostud. 3 no.6:427-432 1951. (CIML 21:4).

1. Doctors. 2. Second Internal Clinic, Budapest Medical University.

MOSONYL, I.; SENYAGYI, G.; TOTH, B.; VALYI, F.; HAJOS, Maria

The relationship between serum calcium and citrate levels.
Acta physiol. acad. sci. Hung. 27 no.4:391-396 '65.

1. Fourth Department of Medicine, Postgraduate Medical School,
Department of Physiology, Veterinary University, Sanitary
Service of the Hungarian People's Army and Rheumatology Research
Institute, Budapest.

VAL'GARD, S. L.

Science

Technical elements in the teaching of physics, Moskva, Uchpedgiz, Vol. 1. Mechanics and heat, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

VAL'GARD, S. L.

Electricity in Modern Engineering (Elektrichestvo v sovremennoi tekhnike), Gosenergoizdat, 1952, 144 pages,

This book contains a popular discussion of electricity and its application in various branches of industry, transportation, and agriculture. Early chapters explain the basic laws of electricity, concepts of electric current, conductors, and insulators, voltage, and resistance in electric circuits, dc and ac current, magnetic fields, and electromagnets. Subsequent chapters treat generation and transmission of electric power; its application in industry, transportation, agriculture; and automatic equipment. Concluding chapters cover new developments in the fields of electrical and radio engineering, including electronic tubes, electronic automatic equipment, photoelectric cells, sound motionpictures, television, radar, and the electronic microscope.

The book is intended for beginners in the field of electricity.

So: W-30262

LIVSHITS, L.N., inzh.; PETROV, V.P., inzh.; VALGE, I.A., inzh.;
BERESNEV, A.T., inzh.

Manufacture of welded beams of the V92-T aluminum alloy.
Prom. stroi. 40 no.12:23-28 '62. (MIRA 15:12)

1. Chelyabinskiy zavod metallokonstruktsiy imeni Ordzhonikidze
(for Livshits).
(Aluminum alloys) (Beams and girders)

VALGE, I.A., inzh.; SEMENOV, A.V., inzh.

Forming the shell of vessels for the chemical industry by the coiling
method. Svar.proizv. no.2:7-9 F '64. (MIRA 18:1)

1. Chelyabinskij zavod metallokonstruktsiy.

VALGE, I.A., inzh.; SEMENOV, A.V.

Semiautomatic welding in carbon dioxide at the Chelyabinsk
Plant for metal structures. Svar. proizv. no.5:30-31
My '64. (MIRA 18:11)

SELYAM, L. M.; VAL'GERMAN, R. B. (Moskva)

Organizing exercise therapy at a polyclinic. Zdrav. Ros. Feder.
6 no.8:10-13 Ag '62. (MIRA 15:7)

(EXERCISE THERAPY)

ARKHIPOV, M.I.; VALGIN, A.D.

Spectrophotometric examination of alkylphenol-formaldehyde resins.
Lakokras.mat. i ikh prim. no.2:59~62 '61. (MIRA 14:4)

1. Laboratoriya kafedry lakov i krasok Ivanovskogo khimiko-
tekhnologicheskogo instituta.
(Phenol condensation products--Spectra)

L 11203-66 EWT(m)/EWP(j)/T
ACC NR: AP6003430

WW/JWD/RM

SOURCE CODE: UR/0190/66/008/001/0188/0188

AUTHOR: Valgin, A. D.; Korshak, V. V.; Kutepov, D. F.

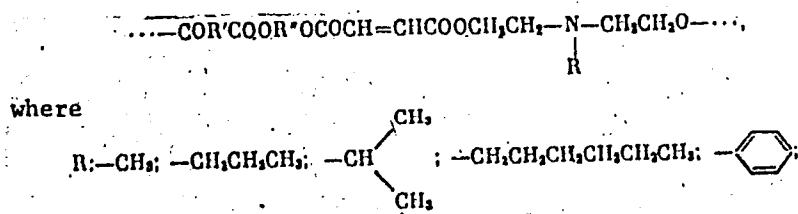
ORG: none

TITLE: Synthesis of new unsaturated polyesters

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 188

TOPIC TAGS: polyester, heat resistant material

ABSTRACT: New unsaturated copolymeric polyesters containing a tertiary nitrogen atom in the backbone have been synthesized:



Card 1/2

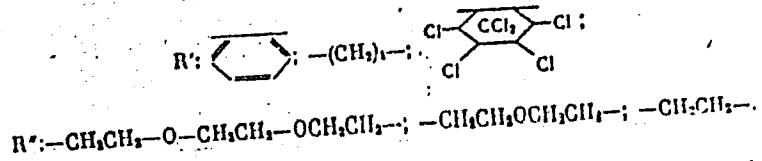
UDC: 541.64+678.674

Z

L 114203-66

ACC NR: AP6003430

2



Solutions of these polyesters in styrene or TGM-3 solvent [unspecified] were cured with peroxides at room temperature; styrene solutions were cured most readily. Cure time decreased with decreasing length of R, but polyesters having R = phenyl cured much faster than those with R = CH_3 . Cure time decreased with decreasing length of R''. The time of cure with benzoyl peroxide at room temperature was 15 min to 8 days or more. The Vicat softening point for polyesters based on phthalic anhydride and styrene reached 180°C. The materials exhibited good physical and mechanical properties immediately after the cure. [SM]

SUB CODE: 11/ SUBM DATE: 06Jul65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:
07/ 4193

Card

JC
2/2

ACC NR: AP6018122

SOURCE CODE: UR/0191/66/000/006/0010/0010

AUTHOR: Valgin, A. D.; Korshak, V. V.; Kutepov, D. F.; Vosilyute, S. V.

ORG: none

TITLE: Synthesis of unsaturated polyesters in the presence of alkyl-bis-(beta-hydroxyethyl)-amines and their investigation

SOURCE: Plasticheskiye massy, no. 6, 1966, 16-18

TOPIC TAGS: polyester plastic, phthalic anhydride, amine, chemical reaction kinetics, polycondensation, ORGANIC SYNTHETIC PROCESS

ABSTRACT: The use of alkyl-bis-(beta-hydroxyethyl)-amines (A) in the synthesis of unsaturated polyesters was examined. The polyester was synthesized from maleic anhydride:phthalic anhydride:ethylene glycol, 1:1:0.55 ratio, by melting in the presence of small amounts of A where the alkyl was methyl, propyl, isopropyl or hexyl. Reaction kinetics showed that even only 0.05 mol of A per mol of unsaturated acid accelerated reaction 1.5 times. Increasing the amount of A to 0.3 mols accelerated the polycondensation and gave higher molecular weight polyesters. The longer the alkyl substituent at the N-atom of the amine, the more effective the accelerator. Orig. art. has: 3 tables and 3 figures.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002
Card 1/1 UDC: 678.674.4:002

LOSEV, I.P.; KUZNETSOV, D.A.; VALGIN, V.D.

Porous plastics made of low-molecular polyepoxide resins and
aromatic diamines. Biul.tekh.-ekon.inform. no.10:48-50
'58. (MIRA 11:12)
(Porous materials) (Epoxide resins) (Amines)

85548

S/081/60/000/020/011/014
A006/A001

15-8110

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 20, p. 516. # 83065

AUTHORS: Losev, I.P., Kuznetsov, D.A., Valgin, V.D.

TITLE: Gasfilled Materials on Polyepoxide Resin Base. Information I

PERIODICAL: Tr. Mosk. khim-tehnol. in-ta im. D.I. Mendeleyeva, 1959, No. 29,
pp. 3-10

TEXT: Foam plastic were obtained when mixing low-molecular epoxide resin 9A-6 (ED-6) or 3A-5 (ED-5) (100 weight portions) with molten or fine-crushed aromatic diamine in an amount approaching the stoichiometric quantity, 2 - 10 weight portions 2,2'-azo-bis-(isobutyronitrile) and 2 weight portions of the "A equalizer". The temperature of 50 - 70°C was maintained for 20 - 30 min. The mixture obtained was poured into a mold and heated for 1 - 2 hours at 50 - 60°C and then for 1 hour at 120 - 130°C. The authors show the dependence of heat resistance of the foam plastics¹⁵ on the hardening time at 150°C and on the quantitative ratio of epoxide resin and m-phenylene-diamine. It is noted that the

Card 1/2

85548

S/081/60/000/02C/011/01⁴
A006/A001

Gasfilled Materials on Polyepoxide Resin Base. Information I

brittleness of foam plastics increases with a reduced amount of amine. The authors show the dependence of the compression strength of foam plastics on the volumetric weight, which was determined from the amount of a gas-forming agent introduced. It is noted that some physico-mechanical and dielectric characteristics of the foam plastics obtained exceed those of materials produced by domestic industry, and they can be used as filler material.

Ye. Zambrovskaya

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

LOSEV, I.P.; KUZNETSOV, D.A.; VALGIN, V.D.

Preparation of gas-filled materials from the products of interaction
between epoxy compounds and some anhydrides of dibasic acids. Trudy
MKHTI no.29:11-14 '59. (MIRA 13:11)

(Epoxy compounds) (Plastics)

LOSEV, I.P.; KUZNETSOV, D.A.; VALGIN, V.D.

Synthesis of 1,4,5,6,7,7-hexachlorobicyclo [2.2.1]hept-5-ene-2,3-dicarboxylic acid anhydride. Trudy MKFTI no.29:15-16 '59.
(MIRA 13:11)
(Bicycloheptenedicarboxylic acid)

VALGIN, V. D., Cand Tech Sci -- (diss) "Synthesis and investigation of foam layers on a basis of epoxy resins." Moscow, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Chemical Technology Inst im D. I. Mendeleyev); 180 copies; price not given; (KL, 25-60, 130)

Valley D.

LAST BOOK ILLUSTRATION

二

PROBLEMA DE LA DIFERENCIA ENTRE LOS PUEBLOS (Revista de Ciencias Sociales) Mexico, Octubre-Diciembre, 1960. 182 pp. Errata slip inserted. 750 copias privadas.

M.: A.J. Petersen, Candidate of Technical Sciences; Publishing House: I.A. Suvorov
Managing Ed.: A.J. Zaytsev, Engineer; Ed. of Publishing House: I.A. Suvorov

Rev. Mr. W. H. Brewster

REPSOL: The new and structures will be integrated into the petrochemical industry and creating markets.

CONTINUE: The volume contains 23 studies on form plasticity from 12 countries. The following topics are covered: the relationship between the mechanical properties of polymers and their crystalline forms; molecular mechanisms of polymer crystallization; new data on the chemical and physical properties of polymeric materials; the influence of organic solvents on the mechanical and thermal properties of polymers; the effect of plasticizers on the rheological properties of form plastic.

written on the physical, mechanical, and electrical properties of these plastics. Several studies deal with the production techniques of resins and publications for extensive installations and applications in the field of application of these plastics. It is noted in the forward that the Japanese produce some of the best thermoplastic polymers of all kinds. The following is a list of some of the most important papers on the subject:

Polymer Physics is the "Technology of producing gas filled polymers,"
This study is concerned with the properties, and fields of application.
The study of polymerization, and methods, and manufacturing
of polyesters, diisopropylene, carbonates, and emulsifying
agents based on polyester, diisopropylene, and emulsion.

Perlov, V.V., M.S. Goryainov, and T.P. Dubrova. *Ustoychivost' poliuretana pri*

This study contains data on the technology of producing reflector and reflecting station reflectors for marine installations. It also includes information on the use of reflectors in marine navigation.

DATA ON VARIOUS WAYS OF KILLING THE INFLUENZA VIRUS 157

Borodkin, N.Ya., and E.I. Lazarenko. From *Russkaya promst*, No. 10, 1956, p. 10. This study contains data on the production technology and properties of *silicon* and *silicon-aluminum*. High thermal stability.

from plastic sheet know ESR 1100. Its
heat-resistant properties make this form
stable and good dielectric and heatproof properties make this form
suitable for applications in the field of radio engineering and

insulation at temperatures of 200-250° up to 500° and at times of 100-150° up to 50 hours.

WEST, I.P., D.A. KUMMERER, and V.R. YALDILU. From Plastic Sheets Based

on Polyepoxy Resins With Aromatic Blenders. This study contains experimental data on the production technology of polyepoxy resins with

and properties of some plastic sheeting, and also include data on the interaction of such materials dimension. It also includes data on the optimum bonding conditions on certain vinyl interpolymerizables, and on the optimum active components on the composition, and on the effect of the surface active components as structural conditions. This type of foam plastic sheet can be used as structural and electrical insulation material at temperatures up to 110° F. in the field of aviation and electrical engineering.

3047
S/081/62/000/008/045/057
B166/B161

15.8.21
AUTHORS: Losev, I. P., Kuznetsov, D. A., Valgin, V. D.

TITLE: Foam plastics based on polyepoxide resins with aromatic diamines

PERIODICAL: Referativnyj zhurnal. Khimiya, no. 8, 1962, 552, abstract 8P27 (Sb. "Fenoplastmassy". M., Oborongiz, 1960, 167 - 183)

TEXT: The production of a foam plastic based on ЭД-6 (ED-6) epoxide resin with m-phenylenediamine as curing agent is described; it is recommended as a structural and electrical insulating material at operating temperatures up to 110° in aviation, electrical engineering and other branches of industry. A study was made of the conditions of foaming of the compositions and of their influence on the structure of the foam plastic. The best physical and mechanical properties were found in foam plastics with a fine-grain texture, achieved by foaming a composition with a stoichiometric ratio of the basic components within the limits of 35.5 - 54% of the epoxy groups used. Cation-active quaternary ammonium salts (equalizer A) and non-ionogenic products type ОП-7 (OP-7) and ОТ-10 (OP-10) were

Card 1/2

✓

Foam plastics based on ...

S/CS1/62/000/008/045/057
B166/B161

tried as surface active agents. The optimum composition recipe is given (parts by weight): ED-6 resin 100, m-phenylene diamine 9.4 - 10.5 (stoichiometric quantity), azodinitrile of diisobutyric acid 2 - 10 (depending upon the volume weight required), equalizer A or product OP-7 2 - 4. The production process for obtaining the foam plastic is described in detail. The properties of a foam plastic with a specific gravity of 0.084 g/cm³ at ~20° are given. [Abstracter's note: Complete translation] ✓

Card 2/2

VALGIN, V.D.
AID Nr. 975-7 23 May

FIRE-RESISTANT UNSATURATED POLYESTER RESINS (USSR)

Valgin, V. D., V. N. Demin, and Ye. B. Petrilenkova. Plasticheskiye
massy, no. 4, 1963, 14-16. S/191/63/000/004/004/015

Fire-resistant, unsaturated polyester resin ПНН has been synthesized by reacting chloroendic anhydride, maleic anhydride, ethylene glycol, and diethylene glycol at 160 to 175°C in a flask provided with a bubbler for CO₂. After the neutralization number of the polyester attained 25 to 28 mg KOH per g resin the reaction mixture was cooled to 140 to 150°C and hydroquinone was added.

ПНН is a brown, transparent solid (density, 1.57 to 1.59 g/cm³; chlorine content, 36 to 37.4%) soluble in acetone, benzene, styrene, and methyl methacrylate. Study of the properties of cured polyester-styrene solutions showed that a styrene-containing ПНН with the best properties is obtained under the following conditions: neutralization number of the polyester, 25 to 28 mg KOH per g of resin; styrene content, 25 to 30%; initiator (cumene hydroperoxide), 3 to 5 parts; and accelerator (cobalt naphthenate), 0.45 to 0.55 parts per 100 parts of polyester-styrene solution. The styrene-containing ПНН is fire-resistant

Card 1/2

AID Nr. 975-7 23 May

FIRE-RESISTANT [Cont'd]

S/191/63/000/004/004/015

and has the following properties: density, 1.35 to 1.41 g/cm³; Vicat softening point, 110 to 126°C; compressive strength, 1300 to 1370 kg/cm²; bending strength, 350 to 400 kg/cm²; impact toughness, 2.7 to 3.6 kg·cm/cm²; and 12-hr acetone-extracted fraction, 14 to 16%. Preliminary tests indicated that styrene solutions of HHH can be used as adhesives to bond foamed plastics to metals and as binders for fire-resistant glass-reinforced plastics.

[BAO]

Card 2/2

AUTHOR: Kaligio, V. B., Tsvetkov, A. I.

TYPE: A method for producing an organic coating on a plastic surface

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 62

ABSTRACT: A method for producing an organic coating on a plastic surface active

SUBMITTED: 03Dec62

REF ID: A62

L 35523-65 ENT(m)/EFF(c)/EWP(j)/T PC-4/Pr-4 RM

S/0286/65/000/005/0071/0071

ACCESSION NR: AP5008202

25

AUTHORS: Valgin, V. D.; Vasil'yeva, E. A.; Sergeyeva, V. A.; Gefter, Ye. L.;
Yuldashev, A.

TITLE: A method for producing foam plastic. Class 39, No. 168881

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 71

TOPIC TAGS: foam plastic, epoxy resin, surface active substance, polycondensation

ABSTRACT: This Author Certificate presents a method for producing foam plastic from epoxy resins, hardener, porophor, and surface-active substance. In order to obtain a fireproof, self-quenching product, the homopolycondensation product of β , β' -dichlorodiethyl ester of vinyl phosphonic acid in the amount of 25-28% of the quantity of epoxy resin is introduced into the mixture.

ASSOCIATION: none

SUB CODE: MT, OC

SUBMITTED: 10Apr62

ENCL: 00

NO REF Sov: 000

OTHER: 000

Card 1/1

L 40992-65 ENT(m)/EPF(c)/EXP(j)/T PC-4/PR-4 RM
ACCESSION NR: AP5006566 S/0191/65/000/003/0057/0059

AUTHOR: Valgin, V. D.; Vasil'yeva, E. V.; Sergeyeva, V. A.

22
B

TITLE: Preparation of foamed plastics as an example of the hardening of epoxy resins by KhED-anhydride (anhydride of 1,4,5,6,7,7-hexachlorobicyclo-(2,2,1)-hepto-5-en-2,3-dicarboxylic acid)

SOURCE: Plasticheskiye massy, no. 3, 1965, 57-59

TOPIC TAGS: foam plastic, penoplast, hardening agent, toluylene diisocyanate, epoxy resin, emulsifier, resin hardening, dicarboxylic acid anhydride / KhED anhydride

ABSTRACT: In an attempt at utilizing the foaming effect of CO₂ evolution in the reaction of 2,4-toluylenediisocyanate (1) with KhED-anhydride (2) for the preparation of foamed plastics, the authors treated a mixture of ED-6 epoxy resin with azodiisobutyronitrile and VNIIZh emulsifier at 60-70C for 10-15 min., adding (1), (2), and glycerol. The pasty product, poured into a mold, was heated for 10-20 min. at 80±5C in a constant temperature bath and allowed to solidify at 130 ± 5C for 1-2 hrs. Laboratory samples of the product, having a density of 0.11, 0.20, and 0.28 g/cm³, exhibited a compressive strength of 9.0, 26.5, and

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L 40992-65
ACCESSION NR: AP5006566

40 kg/cm², respectively, a static bending strength of 17.0, 22.9, and 25.0 kg/cm², an impact toughness of 0.25, 0.5 and 0.5 kg·cm/cm², a coefficient of heat conductivity of 0.030, 0.037 and 0.038 Kcal/m x hr/C, and a softening temperature of 130, 132, and 136C. Positive results could not, however, be achieved on a larger scale using available industrial (2) due to the presence in it of KhED acid, causing premature foaming. Orig. art. has: 2 tables, 1 figure and 4 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, MT

NO REF SCV: 004

OTHER: 001

Card

2/2

1965-1970
Soviet Science

A. V. KARABYANOV, V. I. TIKHONOV

Report No. 1. Supplement No. 1

TITLE: Study of the resistance of epoxy foam PE-1 to various petroleum products

SOURCE: Plasticheskiye massy, no. 2, 1965, 68-69

TOPIC TAGS: epoxy resin, epoxy foam, foam plastic, petroleum, gasoline, phenylene-diamine polymer

ABSTRACT: The resistance of epoxy foam PE-1 to various petroleum products was determined to determine its service properties. The foam has a closed cellular structure and is used as a liner in tanks for storing gasoline and kerosene. It is shown that the foam is resistant to gasoline, kerosene, benzene, and phenylene-diamine polymer.

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Card

2000-0000

ACCESSION NR: AP5004317

remained dry and unaffected. Orig. art. has 3 tables, 1 figure and 1 formula

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, FP

NO REF Sov: 003

OTHER: 200

Card 2/2 JC

VALGIN, V.D.; VASIL'Yeva, N.V.; SERGEYeva, V.A.

Using chlorendic anhydride for the hardening of epoxy resins as
exemplified in the manufacture of foam plastics. Plast. massy
no. 3.57-59 '65. (MIRA 18:6)

ACCESSION NO.

AUTHOR: Valgin, V. D.; Demin, V. N.; Petrilenkova, Ye. B.

TITLE: Preparation of fire-resistant polymeric materials. Class 39, No. 145749⁵

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 8, 1965, 147

TOPIC TAGS: fire resistant polymeric material, polyester resin, chlorine containing polyester resin

ABSTRACT: An author certificate has been issued for a preparative method for fire-resistant polymeric materials based on chlorinating polyester resins. 25

Card 2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858430003-9"

L 15340-66 EWT(m)/EWP(j)/T/ETC(m)-6 WW/JWD/RM
ACC NR: AP6000973 (N)

SOURCE CODE: UR/0286/65/000/022/0057/0057

AUTHORS: Valgin, V. D.; Vasil'yeva, E. A.; Sergoyeva, V. A.; Demin, G. G.; Kozlova, R. I.; Prokhorov, Yo. F.; Kuchina, F. G.

ORG: none

TITLE: A method for obtaining foam plastic. Class 39, No. 176391 (announced by Vladimir Scientific Research Institute for Synthetic Resins (Vladimir'skiy nauchno-issledovatel'skiy institut sinteticheskikh smol))

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 57

TOPIC TAGS: plastic, foam plastic, polymer, resin, epoxy, catalyst

ABSTRACT: This Author Certificate presents a method for obtaining a foam plastic on the basis of epoxide resins and aromatic polyamides in the presence of an emulsifier with the aid of a gas generator. The reagents are thoroughly mixed, foamed, and hardened by heating. To lower the foaming and hardening temperature, organic and inorganic acid catalysts are added to the reaction mixture. The organic catalysts are formic and acetic acid and the inorganic catalysts are phosphoric acid and perchloric acid. The catalysts are used in proportion of 0.2 to 3 wt parts per 100 wt part of resin. Freons are used as foaming agents.

SUB CODE: 11/ SUBM DATE: 31Oct63

Card 1/1

UDC: 678.643'42'5.076.044.6

VALGUZOV, V. (Moskva)

Plane diaphragm in place of a cone. Radio no. 6:51 Je '63.
(MIRA 16:7)
(Loudspeakers)

3187. Determination of saccharin sodium with perchloric acid in acetic acid. I. Gyenes and A. Váli (*Magyar Kém Foly.*, 1955, 81 [3], 99-91).— In acetic acid, saccharin sodium (I) decomposes into *o*-sulphamylbenzoic acid and Na acetate; the acetate ions are titrated with HClO_4 . Procedure.— Dissolve 200 mg of I in anhydrous acetic acid; for each 10 ml of the soln., add 1 drop of a 1 per cent. crystal violet soln. in acetic acid and titrate with 0.1 N HClO_4 (in acetic acid) to blue (first colour-change) or an emerald-green colour (second colour-change). The HClO_4 is standardised against diphenylguanidine; to the same colour change, 1 ml of 0.1 N HClO_4 = 20.32 mg of I. The error is ± 0.5 per cent. N. G. Pécsy

~~Alajos Váll~~ - VALI, Alajos

✓ Determination of saccharin sodium by titration with perchloric acid. István Gyenes and Alajos Váll (Kolbánya, Pharm Factory, Budapest). Magyar Kémiai Folyóirat 69, 90-11 (1957). Saccharin Na decomps. in glacial AcOH to saccharin and Na acetate. The sample is dissolved in glacial AcOH, and one drop of a 1% soln. of crystal violet in glacial AcOH is added for each 10 ml. of solvent applied, then titrated with 0.1N perchloric acid to blue (1st transition) or to emerald green (2nd transition). One ml. of titrant = 20.52 mg. saccharin Na. The titrant may be adjusted by diphenylguanidine. István Finály.

①
MET

GUNDA, L.; JOO, I.; RICHTER, P.; VALI, A.

Preparation of typhoid vaccine from separated antigenic components.
I. Preparation of purified O and Vi antigens. Acta microb. hung.
4 no.3:263-277 1957.

1. Human State Vaccine Institute for Production and Research, Budapest.
(TYPHOID FEVER, immunol.
vaccine prep. from separated antigenic components, prep.
of purified O & Vi antigens.

SZAKMARY, G.; VALI, A.

Studies on the residual moisture content of freeze-dried live vaccines. Acta veter Hung 13 no.4:411-415 '63.

1. Phylaxia State Vaccine Institute (Director: J.Molnar), Budapest, and Institute for Serobacteriological Production and Research "Human" (Director: G.Veres), Budapest.